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## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2018-06-06-04** **Date: 09-06-2018** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore |
| **Project Name** | : | Construction of School building in Narasipura in ward no. 09 in Vidyaranyapura sub division |
| **Agency** | : | Sri. Hemadrireddy, Contractor No.26, near Sunrise school, Kempapura, Hebbala, Bangalore-24. |
| **Customer's Reference** | : | EE/BTP/BBMP/E-PMT/195/2014-15 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 06-06-2018 |
| **Sample ID No** | : | 2018-06-06-04 /01 |
| **Sample Type** | : | Birla Super 53grade |
| **Reference to BIS codes** | : | IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,<br>IS 4031 (Part 1,2 3,4,5, 6,11):1988<br>IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4<br>IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5<br>IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6<br>IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5<br>IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6 |
| **Date of test** | : | 07-06-2018 |
| **Environmental Conditions during test** | : | Temperature: 26°C<br>Humidity: 72% |

| Sl.No. | Physical properties | Results | Requirement as per IS 12269: 2013 |
|---|---|---|---|
| 1 | Fineness by dry sieving (%) | 1.1 | – |
| 2 | Finess by Air permeablity method ($m^2$/kg,Min) | 297.4 | 225$m^2$/kg, Min |
| 3 | Density (gm/cc) | 3.14 | – |
| 4 | Standard Consistency (%) | 0.285 | Not specified |
| 5 | Initial Setting time (minutes) | 175 minutes | Not less than 30 minutes |
| 6 | Final Setting time (minutes) | 285 minutes | Not more than 600 minutes |
| 7 | Soundness (Le Chatelier's Method) (mm) | 1.5mm | Not more than 10 mm |

**Note:**

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Samples will be disposed after 90 days from the date of issue of test certificate

AE-9

Assistant Executive Engineer
Vidyaranyapura sub Divn
BBMP, Bangalore-97

**FOR CIVIL Pro.**

CIVIL Pro Sig..... Date..... BANGALORE

**R KARTHIK RECHAN**
Authorized Signatory
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****End of Report****

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## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2018-06-06-04** **Date: 05-07-2018** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore |
| **Project Name** | : | Construction of School building in Narasipura in ward no. 09 in Vidyaranyapura sub division |
| **Agency** | : | Sri. Hemadrireddy, Contractor No.26, near Sunrise school, Kempapura, Hebbala, Bangalore-24. |
| **Customer's Reference** | : | EE/BTP/BBMP/E-PMT/195/2014-15 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 06-06-2018 |
| **Sample ID No** | : | 2018-06-06-04 /01 |
| **Sample Type** | : | Birla Super 53grade |
| **Reference to BIS codes** | : | IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,<br>IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 6, Determination of Compressive Strength, Clause 6 |
| **Date of test** | : | 07-06-2018 |
| **Environmental Conditions during test** | : | Temperature: 26˚C<br>Humidity: 72% |

**Compressive Strength**

| Sl.No. | Physical properties | Results (N/mm$^2$) | Requirement as per IS 12269: 2013 |
|---|---|---|---|
| 1 | 3 Days | 29.5N/mm2 | Not less than 27 N/mm$^2$ |
| 2 | 7 Days | 39.5N/mm2 | Not less than 37 N/mm$^2$ |
| 3 | 28 Days | 56.5N/mm2 | Not less than 53 N/mm$^2$ |

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## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2018-06-06-04** **Date: 09-06-2018** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore |
| **Project Name** | : | Construction of School building in Narasipura in ward no. 09 in Vidyaranyapura sub division |
| **Agency** | : | Sri. Hemadrireddy, Contractor No.26, near Sunrise school, Kempapura, Hebbala, Bangalore-24. |
| **Customer Reference** | : | EE/BTP/BBMP/E-PMT/195/2014-15 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 06-06-2018 |
| **Sample ID No** | : | 2018-06-06-04 /02(b) |
| **Sample Type/ Size** | : | 12.5mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2011<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 06-06-2018 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 12.5MM DOWN COARSE AGGREGATE:**

**Total weight taken : 5000 grams**

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 20 mm | 0 | 0 | 0 | 100 | 100 |
| 2 | 12.5 mm | 199 | 199 | 4.0 | 96.0 | 90-100 |
| 3 | 10 mm | 2500 | 2699 | 54.0 | 46.0 | 40-85 |
| 4 | 4.75 mm | 1980 | 4679 | 93.6 | 6.4 | 0-10 |
| 5 | Pan | 321 | 5000 | 100 | 0 | – |



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## TEST REPORT ON COARSE AGGREGATES

**Lab ID** : **CP-2018-06-06-04** **Date: 09-06-2018**

**Sample ID No** : 2018-06-06-04 /02(b)

### PHYSICAL PROPERTIES

| Sl.no | Tests | Result | Requirements as per IS:383-2016 |
|---|---|---|---|
| 1 | Flakiness Index(%) | 11.5 | Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate |
| 2 | Elongation Index(%) | 16.1 | |
| 3 | Specific Gravity | 2.61 | _ |
| 4 | Bulk Density(Loose) (Kg/l) | 1.48 | _ |
| 5 | Bulk Density(Compacted) (Kg/l) | 1.53 | _ |
| 6 | Water Absorption(%) | 0.25 | _ |
| 7 | Aggregate crushing Value(%) | 24.7 | Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface. |
| 8 | Aggregate Impact Value(%) | 22.5 | 30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface. |

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# TEST REPORT OF FINE AGGREGATE

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2018-06-06-04** **Date: 09-06-2018** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore |
| **Project Name** | : | Construction of School building in Narasipura in ward no. 09 in Vidyaranyapura sub division |
| **Agency** | : | Sri. Hemadrireddy, Contractor No.26, near Sunrise school, Kempapura, Hebbala, Bangalore-24. |
| **Customer's Reference** | : | EE/BTP/BBMP/E-PMT/195/2014-15 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 06-06-2018 |
| **Sample ID No** | : | 2018-06-06-04 /03 |
| **Sample Type** | : | Fine Aggregate |
| **Reference to BIS codes** | : | IS 383 : 2016 (Specification for Coarse and fine Aggregates)<br>IS: 2386 :1963(Part - 1, 3) RA2012<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption |
| **Date of test** | : | 06-06-2018 |
| **Total weight taken** | : | 1000 grams |

| Sl.no | Sieve Size | Weight Retained (gms) | Cumulative Weight Retained (gms) | % Cumulative Weight Retained | % Passing | Requirement as per IS 383:2016 | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Grading Zone I | Grading Zone II | Grading Zone III | Grading Zone IV |
| 1 | 10 mm | 0 | 0 | 0.0 | 100.0 | 100 | 100 | 100 | 100 |
| 2 | 4.75 mm | 22 | 22 | 2.2 | 97.8 | 90-100 | 90-100 | 90-100 | 95-100 |
| 3 | 2.36 mm | 135 | 157 | 15.7 | 84.3 | 60-95 | 75-100 | 85-100 | 95-100 |
| 4 | 1.18 mm | 187 | 344 | 34.4 | 65.6 | 30-70 | 55-90 | 75-100 | 90-100 |
| 5 | 600 micron | 207 | 551 | 55.1 | 44.9 | 15-34 | 35-59 | 60-79 | 80-100 |
| 6 | 300 micron | 248 | 799 | 79.9 | 20.1 | 5-20 | 8-30 | 12-40 | 15-50 |
| 7 | 150 micron | 105 | 904 | 90.4 | 9.6 | 0-10 | 0-10 | 0-10 | 0-15 |
| 8 | Pan | 96 | 1000 | 100.0 | 0.0 | --- | --- | --- | --- |

**Result :The tested Sample Conforms to Grading Zone II**



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# TEST REPORT OF FINE AGGREGATE

**Lab ID** : **CP-2018-06-06-04** **Date: 09-06-2018**

**Sample ID No** : 2018-06-06-04 /03

## PHYSICAL PROPERTIES

| Sl.no | Tests | Result | Requirements as per IS 383:2016 |
|---|---|---|---|
| 1 | Water Absorption(%) | 1.5 | _ |
| 2 | Specific Gravity | 2.6 | _ |
| 3 | Material finer than 75 micron(%) | 7.1 | Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10% |

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# TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2018-06-06-04** **Date: 12-06-2018** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore |
| **Project Name** | : | Construction of School building in Narasipura in ward no. 09 in Vidyaranyapura sub division |
| **Agency** | : | Sri. Hemadrireddy, Contractor No.26, near Sunrise school, Kempapura, Hebbala, Bangalore-24. |
| **Customer's Reference** | : | EE/BTP/BBMP/E-PMT/195/2014-15 |
| **Source of sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 06-06-2018 |
| **Sample ID No** | : | 2018-06-06-04/05 |
| **Identification Mark on Brick** | : | Burnt Clay Brick |
| **Reference to BIS codes** | : | IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks-Specification<br>IS 3495 (Part 1 to 3) : 1992(RA 2011)<br>Method of Tests Burnt Clay Building Bricks<br>Part 1:Determination of Compressive Strength, (Cl 4.2.3)<br>Part 2:Determination of Water Absorption,(Cl 4.1.3)<br>Part 3: Determination of Efflorescence, (Cl 4) |
| **Date of test** | : | 06-06-2018 |

## COMPRESSIVE STRENGTH

| Sl.No. | Length (mm) | Breadth (mm) | Area ($mm^2$) | Failure Load (KN) | Compressive strength of individual bricks ($N/mm^2$) | Acceptablity as per IS 1077:1992, Clause 7.1 |
|---|---|---|---|---|---|---|
| 1 | 228.13 | 109.98 | 25090 | 206.7 | 8.2 | The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%. |
| 2 | 228.98 | 108.62 | 24872 | 197.6 | 7.9 | |
| 3 | 231.01 | 107.99 | 24947 | 201.3 | 8.1 | |
| 4 | 230.11 | 107.54 | 24746 | 199.5 | 8.1 | |
| 5 | 228.16 | 106.98 | 24409 | 194.6 | 8.0 | |
| **Average of 5 bricks** | | | | | **8.1** | |



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**Lab ID** : **CP-2018-06-06-04** **Date: 12-06-2018**

**Sample ID No** : **2018-06-06-04/04**

## WATER ABSORPTION:

| Sl.No. | Dry Weight | Wet Weight | Water Absorption(%) | Acceptablity as per IS 1077:1992, Clause 7.2 |
|---|---|---|---|---|
| 1 | 2.975 | 3.265 | 9.7 | The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes. |
| 2 | 2.868 | 3.176 | 10.7 | |
| 3 | 2.906 | 3.196 | 10.0 | |
| 4 | 2.976 | 3.275 | 10.0 | |
| 5 | 2.875 | 3.218 | 11.9 | |
| **Average Water Absorption(%)** | | | **10.5** | |

## EFFLORESCENCE:

| Sl.No. | Length (mm) | Breadth (mm) | Area ($mm^2$) | Efflorescence | Acceptablity as per IS 1077:1992, Clause 7.3 |
|---|---|---|---|---|---|
| 1 | 229.18 | 108.98 | 24976 | Slight | The efflorescence shall not be more than 'moderate" upto class 12.5 and "slight" for higer classes. |
| 2 | 228.98 | 109.18 | 25000 | Moderate | |
| 3 | 228.18 | 108.39 | 24732 | Slight | |
| 4 | 230.19 | 107.98 | 24856 | Moderate | |
| 5 | 228.13 | 109.19 | 24910 | Slight | |

## DIMENSIONS AND TOLERANCES

| Sl.No. | Dimensions obtained for 20 bricks(mm) | | Acceptability as per IS 1077:1992, Clause 6.2(b) |
|---|---|---|---|
| 1 | Length | 4620 | 4520 to 4680 mm |
| 2 | Width | 2170 | 2160 to 2240 mm |
| 3 | Height | 1410 | 1360 to 1440 mm |

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# TEST RESULTS OF STEEL

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2018-06-06-04** **Date: 08-06-2018** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore |
| **Project Name** | : | Construction of School building in Narasipura in ward no. 09 in Vidyaranyapura sub division |
| **Agency** | : | Sri. Hemadrireddy, Contractor No.26, near Sunrise school, Kempapura, Hebbala, Bangalore-24. |
| **Customer's Reference** | : | EE/BTP/BBMP/E-PMT/195/2014-15 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 06-06-2018 |
| **Sample ID No** | : | 2018-06-06-04 /05 |
| **Sample Type** | : | Sunvik |
| **Reference to BIS codes** | : | IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012. |
| **Date of test:** | : | 07-06-2018 |

| Sl.No | Identification of sample | Grade of the sample | Diameter of the steel bar | Weight of the sample | Yield stress | Tensile strength | Elongation | Bend test | Rebend test |
|---|---|---|---|---|---|---|---|---|---|
| | | | (mm) | (kg/m) | (N/mm2) | (N/mm2) | (%) | | |
| 1 | Sunvik | Fe500 | 8 | 0.394 | 545 | 674 | 20.0% | Satisfactory | Satisfactory |
| 2 | Sunvik | Fe500 | 10 | 0.615 | 570 | 686 | 20.0% | Satisfactory | Satisfactory |
| 3 | Sunvik | Fe500 | 12 | 0.886 | 580 | 692 | 19.0% | Satisfactory | Satisfactory |

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2018-06-13-01** **Date: 18/06/2018**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore

**Project Name** : Construction of School building in Narasipura in ward no. 09 in Vidyaranyapura sub division

**Agency** : Sri. Hemadrireddy, Contractor No.26, near Sunrise school, Kempapura, Hebbala, Bangalore-24.

**Customer's Reference** : EE/BTP/BBMP/E-PMT/195/2014-15

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 13-06-2018

**Sample ID No** : 2018-06-13-01 /01

**Customer ID** : M20 Concrete (RMC)

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 18/06/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | M20 Concrete (RMC) | M20 | 11/06/2018 | 18/06/2018 | 151.09 X 149.26 X 149.52 | 22552 | 8.448 | 413.2 | 18.3 | 18.6 |
| 2 | M20 Concrete (RMC) | M20 | 11/06/2018 | 18/06/2018 | 150.62 X 151.52 X 150.77 | 22823 | 8.287 | 423.1 | 18.5 | |
| 3 | M20 Concrete (RMC) | M20 | 11/06/2018 | 18/06/2018 | 151.39 X 150.83 X 149.64 | 22835 | 8.160 | 430.0 | 18.8 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2018-06-13-01** **Date: 09/07/2018**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore

**Project Name** : Construction of School building in Narasipura in ward no. 09 in Vidyaranyapura sub division

**Agency** : Sri. Hemadrireddy, Contractor No.26, near Sunrise school, Kempapura, Hebbala, Bangalore-24.

**Customer's Reference** : EE/BTP/BBMP/E-PMT/195/2014-15

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 13-06-2018

**Sample ID No** : 2018-06-13-01 /02

**Customer ID** : M20 Concrete (RMC)

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 09/07/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | M20 Concrete (RMC) | M20 | 11/06/2018 | 09/07/2018 | 149.53 X 150.04 X 151.50 | 22435 | 8.096 | 528.4 | 23.6 | 23.4 |
| 2 | M20 Concrete (RMC) | M20 | 11/06/2018 | 09/07/2018 | 150.86 X 150.66 X 149.72 | 22729 | 7.994 | 516.1 | 22.7 | |
| 3 | M20 Concrete (RMC) | M20 | 11/06/2018 | 09/07/2018 | 150.13 X 150.21 X 149.26 | 22551 | 8.202 | 538.8 | 23.9 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2018-06-18-02** **Date: 21/06/2018**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore

**Project Name** : Construction of School building in Narasipura in ward no. 09 in Vidyaranyapura sub division

**Agency** : Sri. Hemadrireddy, Contractor No.26, near Sunrise school, Kempapura, Hebbala, Bangalore-24.

**Customer's Reference** : EE/BTP/BBMP/E-PMT/195/2014-15

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 18-06-2018

**Sample ID No** : 2018-06-18-02 /01

**Customer ID** : M20 Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 21/06/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | M20 Concrete | M20 | 14/06/2018 | 21/06/2018 | 149.34 X 150.88 X 151.50 | 22532 | 8.417 | 426.2 | 18.9 | 18.4 |
| 2 | M20 Concrete | M20 | 14/06/2018 | 21/06/2018 | 150.68 X 149.62 X 151.60 | 22546 | 8.167 | 410.4 | 18.2 | |
| 3 | M20 Concrete | M20 | 14/06/2018 | 21/06/2018 | 149.89 X 150.82 X 150.65 | 22606 | 8.069 | 412.0 | 18.2 | |

**Note:**

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

**FOR CIVIL Pro.**

CIVIL PRO Sig..... Date..... BANGALORE

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**


****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2018-06-18-02** **Date: 12/07/2018**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore

**Project Name** : Construction of School building in Narasipura in ward no. 09 in Vidyaranyapura sub division

**Agency** : Sri. Hemadrireddy, Contractor No.26, near Sunrise school, Kempapura, Hebbala, Bangalore-24.

**Customer's Reference** : EE/BTP/BBMP/E-PMT/195/2014-15

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 18-06-2018

**Sample ID No** : 2018-06-18-02 /02

**Customer ID** : M20 Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 12/07/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | (mm) | (Sq.mm) | (kg) | (KN) | ($N/mm^2$) | ($N/mm^2$) |
| 1 | M20 Concrete | M20 | 14/06/2018 | 12/07/2018 | 151.85 X 150.88 X 151.17 | 22911 | 8.295 | 540.1 | 23.6 | 23.2 |
| 2 | M20 Concrete | M20 | 14/06/2018 | 12/07/2018 | 151.04 X 151.03 X 151.97 | 22810 | 8.474 | 523.9 | 23.0 | |
| 3 | M20 Concrete | M20 | 14/06/2018 | 12/07/2018 | 149.16 X 150.06 X 149.28 | 22384 | 8.376 | 518.3 | 23.2 | |

**Note:**
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**FOR CIVIL Pro.**

CIVIL PRO BANGALORE Sig..... Date.....

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Authorized Signatory
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****End of Report****

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